

EB 305535946 US

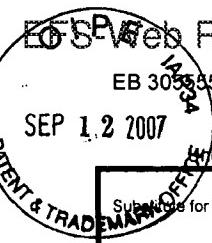
PTO/SB/08A (07-05)

SEP 12 2007

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 Submission for form 1440/PTO  <b>INFORMATION DISCLOSURE STATEMENT</b> <b>BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>
Sheet	1	of	16	

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A1		3891302	Jun-75	Dabby et al.	
A2		3916182	Oct-75	Dabby et al	
A3		3968476	Jul-76	McMahon	
A4		4011435	Mar-77	Phelps	
A5		4023010	May-77	Horst et al	
A6		4053228	Oct-77	Schiller	
A7		4131337	Dec-78	Moraw et al	
A8		4168146	Sep-79	Grubb et al	
A9		4301139	Nov-81	Feingers et al	
A10		4386274	May-83	Altshuler	
A11		3891302	Jun-75	Dabby et al.	
A12		3916182	Oct-75	Dabby et al	
A13		3968476	Jul-76	McMahon	
A14		4445229	Apr-84	Tasto et al	
A15		4447546	May-84	Hirschfeld	
A16		4560881	Dec-85	Briggs	
A17		4562157	Dec-85	Lowe et al	
A18		4647544	Mar-87	Nicoli et al	
A19		4678752	Jul-87	Thorne et al	
A20		4685480	Aug-87	Eck	
A21		4690907	Sep-87	Hibino et al	
A22		4716121	Dec-87	Block et al	
A23		4725110	Feb-88	Glenn et al.	
A24		4740468	Apr-88	Weng et al	
A25		4740688	Apr-88	Edwards	
A26		4748110	May-88	Paul	
A27		4767719	Aug-88	Finlan	
A28		4807950	Feb-89	Glenn et al.	
A29		4816659	Mar-89	Bianco et al	
A30		4841140	Jun-89	Sullivan et al	

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<b>INFORMATION DISCLOSURE STATEMENT</b> <b>BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Application Number	10/661,836
Sheet	2	of	16	Filing Date	September 12, 2003
				First Named Inventor	John Moon
				Art Unit	1743
				Examiner Name	Hyun, Paul Sang Hwa
				Attorney Docket Number	IP-0018-US (830-0018US1)

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear
	B1	4877747	Oct-89	Stewart	
	B2	4880752	Nov-89	Keck et al	
	B3	4882288	Nov-89	North et al	
	B4	4921805	May-90	Gebeyehu et al	
	B5	4931384	Jun-90	Layton et al	
	B6	4937048	Jun 26, 1990	Masahiko, Sakai, et al	
	B7	4958376	Sep-90	Leib	
	B8	4992385	Feb-91	Godfrey	
	B9	5003600	Mar-91	Deason	
	B10	5030558	Jul-91	Litman et al	
	B11	5033826	Jul-91	Kolner	
	B12	5065008	Nov 12, 1991	Hakamata, Kazuo, et al	
	B13	5067155	Nov-91	Bianco et al	
	B14	5081012	Jan-92	Flanagan et al	
	B15	5089387	Feb-92	Tsay et al	
	B16	5090807	Feb-92	Tai	
	B17	5095194	Mar-92	Barbanell	
	B18	5100238	Mar-92	Nailor et al	
	B19	5104209	Apr-92	Hill et al.	
	B20	5115121	May-92	Bianco et al	
	B21	5118608	Jun-92	Layton et al	
	B22	5129974	Jul 14, 1992	Aurenlius, Carl A.D.	
	B23	5138468	Aug-92	Barbanell	
	B24	5141848	Aug-92	Donovan et al	
	B25	5144461	Sep-92	Horan	
	B26	5166813	Nov-92	Metz	
	B27	5192980	Mar 9, 1993	Dixon, Arthur E., et al	
	B28	5196350	Mar-93	Backman et al	
	B29	5200794	Apr-93	Nishiguma et al	
	B30	5218594	Jun-93	Tanno, Naohiro	

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C1		5291006	Mar-94	Nishiguma et al	
C2		5291027	Mar-94	Kita et al	
C3		5300764	Apr-94	Hoshino et al	
C4		5307332	Apr-94	Tinet	
C5		5310686	May-94	Sawyers et al	
C6		5342790	Aug-94	Levine et al	
C7		5349442	Sep-94	Deason et al	
C8		5352582	Oct-94	Lichtenwalter et al	
C9		5364797	Nov-94	Olson et al	
C10		5367588	Nov-94	Hill et al.	
C11		5372783	Dec-94	Lackie	
C12		5374816	Dec-94	Bianco	
C13		5374818	Dec-94	Bianco et al	
C14		5388173	Feb-95	Glenn	
C15		5394234	Feb-95	Bianco et al	
C16		5395558	May-02	Duveneck	
C17		5426297	Jun-95	Dunphy et al.	
C18		5442433	Aug-95	Hoshino et al	
C19		5448659	Sep-95	Tsutsui et al	
C20		5451528	Sep-95	Raymoure et al	
C21		5455178	Oct-95	Fattinger	
C22		5461475	Oct-95	Lerner et al	
C23		5465176	Nov-95	Bianco et al	
C24		5468649	Nov-95	Shah et al	
C25		5506674	Apr-96	Inoue et al	
C26		5514785	May-96	Van Ness et al	
C27		5528045	Jun-96	Hoffman et al	
C28		5547849	Aug-96	Baer et al	
C29		5559613	Sep-96	Deveaud-Pledran et al.	
C30		5585639	Dec-96	Dorsal et al	
C31		5587832	12/24/1996	Krause, Andrew W.	
C32		5607188	Mar-97	Bahns et al	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				First Named Inventor	John Moon
				Art Unit	1743
				Examiner Name	Hyun, Paul Sang Hwa
				Attorney Docket Number	IP-0018-US (830-0018US1)
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	D9	5364797	Nov-94	Olson et al	
	D10	5367588	Nov-94	Hill et al.	
	D11	5372783	Dec-94	Lackie	
	D12	5374816	Dec-94	Bianco	
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	D17	5426297	Jun-95	Dunphy et al.	
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	D19	5448659	Sep-95	Tsutsui et al	
	D20	5451528	Sep-95	Raymoure et al	
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	D26	5514785	May-96	Van Ness et al	
	D27	5528045	Jun-96	Hoffman et al	
	D28	5547849	Aug-96	Baer et al	
	D29	5559613	Sep-96	Deveaud-Pledran et al.	
	D30	5585639	Dec-96	Dorsal et al	
	D31	5587832	12/24/1996	Krause, Andrew W.	
	D32	5607188	Mar-97	Bahns et al	

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				Application Number      10/661,836 Filing Date      September 12, 2003 First Named Inventor      John Moon Art Unit      1743 Examiner Name      Hyun, Paul Sang Hwa Attorney Docket Number      IP-0018-US (830-0018US1)
Sheet	5	of	16	

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E1		5621515	Apr-97	Hoshino	
E2		5624850	Apr-97	Kumar et al	
E3		5625472	Apr-97	Mizrahi et al.	
E4		5627040	May-97	Bierre et al	
E5		5627663	May-97	Horan et al	
E6		5633724	May-97	King et al	
E7		5663790	Sep-97	Ekstrom et al	
E8		5667976	Sep-97	Van Ness et al	
E9		5671308	Sep-97	Inoue et al	
E10		5712912	Jan-98	Tomko et al	
E11		5721435	Feb-98	Troll	
E12		5729365	Mar-98	Sweatt	
E13		5736330	Apr-98	Fulton	
E14		5742432	Apr-98	Bianco	
E15		5745617	Apr-98	Starodubov et al.	
E16		5759778	Jun-98	Li et al	
E17		5760961	Jun-98	Tompkin et al	
E18		5766956	Jun-98	Groger et al	
E19		5776694	Jul-98	Sheiness et al	
E20		5793502	Aug-98	Bianco et al	
E21		5798273	Aug-98	Shuler et al	
E22		5799231	Aug-98	Gates et al	
E23		5801857	Sep-98	Heckenkamp et al	
E24		5804384	Sep-98	Muller et al	
E25		5812272	Sep 22, 1998	Hewlett-Packard Co.	
E26		5822472	Oct-98	Danielzik et al	
E27		5824478	Oct-98	Muller	
E28		5824557	Oct-98	Burke et al	
E29		5831698	Nov-98	Depp et al	
E30		5837475	Nov-98	Dorsal et al	
E31		5841555	Nov-98	Bianco et al	
E32		5846737	Dec-98	Kang	

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F1		5874187	Feb-99	Colvin et al	
F2		5895750	Apr-99	Mushahwar et al	
F3		5922550	Jul-99	Everhart et al	
F4		5925562	Jul-99	Nova et al	
F5		5925878	Jul-99	Challener	
F6		5945679	Aug-99	Dorsal et al	
F7		5972542	Oct-99	Starodubov	
F8		5976896	Nov-99	Kumar et al	
F9		5981166	Nov-99	Mandecki	
F10		5986838	Nov-99	Thomas, III	
F11		5989923	Nov-99	Lowe et al	
F12		5998796	Dec-99	Liu et al	
F13		6001510	Dec-99	Meng et al	
F14		6017754	Jan-00	Chesnut et al	
F15		6025129	Feb-00	Nova et al	
F16		6025283	Feb-00	Roberts	
F17		6036807	Mar-00	Brongers	
F18		6043880	Mar-00	Andrews et al	
F19		6046925	Apr-00	Tsien et al	
F20		6049727	Apr-00	Crothall	
F21		6057107	May-00	Fulton	
F22		6060256	May-00	Everhart et al	
F23		6067167	May-00	Atkinson et al	
F24		6067392	May-00	Wakami et al	
F25		6078048	Jun-00	Stevens et al	
F26		6084995	Jul-00	Clements et al.	
F27		6087186	Jul-00	Cargill et al	
F28		6096496	Aug-00	Frankel et al	

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Sheet	7	of	16	

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G1		6096596	Aug-00	Gonzalez	
G2		6097485	Aug-00	Lievan	
G3		6103535	Aug-00	Pilevar et al	
G4		6118127	Sep-00	Liu et al	
G5		6128077	Oct-00	Jovin et al	
G6		6137931	Oct-00	Ishikawa et al.	
G7		6143247	Nov-00	Sheppard	
G8		6156501	Dec-00	McGall et al.	
G9		6160240	Dec-00	Momma et al	
G10		6160656	Dec-00	Mossberg et al	
G11		6164548	Dec-00	Curiel	
G12		6165592	Dec-00	Berger et al	
G13		6165648	Dec-00	Colvin et al	
G14		6194563	Feb-01	Cruickshank	
G15		6204969	Mar-01	Jang	
G16		6218194	Apr-01	Lyndin et al	
G17		6221579	Apr-01	Everhart et al	
G18		6229635	May-01	Wulf	
G19		6229827	May-01	Fernald et al.	
G20		6229941	May-01	Yoon et al.	
G21		6259450	Jul-01	Chiabrera et al	
G22		6268128	Jul-01	Collins et al	
G23		6277628	Aug-01	Johann et al	
G24		6284459	Sep-01	Nova et al	

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Sheet	8	of	16	

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2,3,4</sup> (known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear
H1		6285806	Sep-01	Kersey et al.	
H2		6288220	Sep-01	Kambara et al	
H3		6292282	Sep-01	Mossberg et al	
H4		6292319	Sep-01	Thomas, III	
H5		6301047	Oct-01	Hoshino et al	
H6		6304263	Oct-01	Chiabrera et al	
H7		6306587	Oct-01	Royer et al	
H8		6309601	Oct-01	Juncosa et al	
H9		6312961	Nov-01	Voirin et al	
H10		6313771	Nov-01	Munroe et al	
H11		6314220	Nov-01	Mossberg et al	
H12		6319668	Nov-01	Nova et al	
H13		6322932	Nov-01	Colvin et al	
H14		6329963	Dec-01	Chiabrera et al	
H15		6331273	Dec-01	Nova et al	
H16		6340588	Jan-02	Nova et al	
H17		6352854	Mar-02	Nova et al	
H18		6355198	Mar-02	Kim et al	
H19		6356681	Mar-02	Chen et al.	
H20		6361958	Mar-02	Shieh et al	
H21		6363097	Mar-02	Linke et al.	
H22		6371370	Apr-02	Sadler	
H23		6372428	Apr-02	Nova et al	
H24		6391562	May-02	Kambara et al	

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				<table border="1"> <tr> <td>Application Number</td> <td>10/661,836</td> </tr> <tr> <td>Filing Date</td> <td>September 12, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>John Moon</td> </tr> <tr> <td>Art Unit</td> <td>1743</td> </tr> <tr> <td>Examiner Name</td> <td>Hyun, Paul Sang Hwa</td> </tr> <tr> <td>Attorney Docket Number</td> <td>IP-0018-US (830-0018US1)</td> </tr> </table>	Application Number	10/661,836	Filing Date	September 12, 2003	First Named Inventor	John Moon	Art Unit	1743	Examiner Name	Hyun, Paul Sang Hwa	Attorney Docket Number	IP-0018-US (830-0018US1)
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Filing Date	September 12, 2003															
First Named Inventor	John Moon															
Art Unit	1743															
Examiner Name	Hyun, Paul Sang Hwa															
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I1		6395558	May 28, 2002	Duveneck, G. L., et al	
I2		6399295	Jun-02	Kaylor et al	
I3		6399935	Jun-02	Jovin et al	
I4		6403320	Jun-02	Read et al.	
I5		6406841	Jun-02	Lee et al	
I6		6406848	Jun-02	Bridgham et al	
I7		6416714	Jul-02	Nova et al	
I8		6416952	Jul-02	Pirrung et al.	
I9		6417010	Jul-02	Cargill et al	
I10		6428707	Aug-02	Berg et al	
I11		6428957	Aug-02	Delenstarr	
I12		6429022	Aug 6, 2002	Kunz, R., et al	
I13		6433849	Aug-02	Lowe	
I14		6436651	Aug-02	Everhart et al	
I15		6440667	Aug-02	Fodor et al.	
I16		6456762	Sep-02	Nishiki et al.	
I17		6462770	Oct-02	Cline	
I18		6489606	Dec-02	Kersey et al	
I19		6496287	Dec-02	Seiberle et al	
I20		6506342	Jan-03	Frankel	
I21		6515753	Feb-03	Maher et al	
I22		6522406	Feb-03	Rovira et al	
I23		6524793	Feb-03	Chandler et al	
I24		6533183	Mar-03	Aasmul	

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		Number-Kind Code <sup>2</sup> (known)			
J1		6544739	Apr-03	Fodor et al.	
J2		6560017	May-03	Bianco	
J3		6565770	May-03	Mayer et al	
J4		6576424	Jun-03	Fodor et al.	
J5		6592036	Jul-03	Sadler	
J6		6594421	Jul-03	Johnson et al	
J7		6609728	Aug-03	Voerman et al	
J8		6613581	Sep-03	Wada et al	
J9		6618342	Sep-03	Johnson et al	
J10		6622916	Sep-03	Bianco	
J11		6628439	Sep-03	Shiozawa et al	
J12		6632655	Oct-03	Mehta et al	
J13		6635470	Oct-03	Vann	
J14		6635863	Oct-03	Nihommori et al	
J15		6646243	Nov-03	Pirrung et al.	
J16		6657758	Dec-03	Garner	
J17		6678429	Jan-04	Mossberg et al	
J18		6689316	Feb-04	Blyth et al	
J19		6692031	Feb-04	McGrew	
J20		6692912	Feb-04	Boles et al	
J21		6982996	May-01	Bailey, T, et al	
J22		7092160	Aug-06	Putnam et al	
J23		7106513	Sep-06	Moon et al	
J24		7126755	Oct-06	Moon et al	

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K1		2002039732	Jan-02	Sebotini, David M.	
K2		20020022273	Jul-02	Empedocles et al	
K3		20020025534	Feb-02	Goh, M. C., et al	
K4		20020034747	Mar-02	Bruchez	
K5		20020039732	Apr-02	Bruchez	
K6		20020074513	Jun-02	Abel, A. P., et al	
K7		20020090650	Jul-02	Empedocles	
K8		20030008323	Jan-03	Ravkin	
K9		20030021003	Jan-03	Ono, Hroaki	
K10		20030032203	Feb-03	Sabatini	
K11		20030077038	Apr-03	Murashima	
K12		20030129654	Jul-03	Ravkin	
K13		20030138208	Jul-03	Pawlak	
K14		20030184730	Apr-03	Murashima, K	
K15		20040075907	Apr-04	Moon	
K16		20040132205	Jul-04	Moon	
K17		20040170356	Sep-04	Iazikov	
K18		20040175842	Sep-04	Roitman, D. B., et al	
K19		20040209376	Oct-04	Natan, M. J., et al	
K20		20040263923	Dec-04	Moon	
K21		20050220408	Dec-05	Putnam et al	
K22		20050227252	Feb 24, 2005	Sailor, M. J., et al	
K23		20050270603	Dec-05	Putnam	
K24		20060023310	Dec 8, 2005	Putnam, M. A., et al	

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Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
BB1	JP 08102544		16-Apr-96	Sato, yOICHI		
BB2	GB 2 118 189		26-Oct-83	Shimadzu Corp		
BB3	GB 2 138 821		31-Oct-84	California Institute Technology		
BB4	GB 2 306 484		07-May-97	Univ Hertfordshire		
BB5	WO 05/079544 A2		01-Sep-05	Sirkis, J. S., et al		
BB6	WO 04/025563 A1		04-Mar-04	Moon, John, et al		
BB7	WO 04/025561		25-Mar-04	Moon, J., et al		
BB8	WO 00/37914		01-Jun-00	Fernald, Mark R.		
BB9	WO 99/32654		01-Jul-99	Hitachi Chemical Co, LTD		
BB10	WO 06/076053 A1		20-Jul-06	Putnam, M. A., et al		
BB11	WO 97/015690		01-May-97	Curagen Corp.		
BB12	WO 05/029047 A2		31-Mar-05	Putnam, M. A., et al		
BB13	WO 05/027031 A2		24-Mar-05	Dunphy, J. R., et al		
BB14	GB 2 319 838		03-Jun-98	Hewlett-Packard Co.		
BB15	GB 2 299 235		25-Sep-96	Uhl, Rainer		
BB16	EP 0 911 667 A1		28-Apr-99	Jovin, T. M., et al		
BB17	JP 01047950		22-Feb-89	Patent Abstracts of Japan		
BB18	WO 06/020363 A2		23-Feb-06	Moon, J. A., et al		
BB19	WO 99/42209		26-Aug-99	TAKEDA CHEMICAL INDUSTRIES, LTD.		
BB20	WO 00/39617		01-Jul-00	Fernald, Mark R, et al.		
BB21	WO 91/06496		16-May-91	Autotrol Corp		
BB22	JP 00249706		14-Sep-00	Hokuto Kagaku Sangyo, K.K. Iatron Lab.		
BB23	DE 2416652		16-Oct-75	Flasdieck, Dierk		
BB24	EP 0 395 300		31-Oct-90	Alcan Int, LTD		
BB25	EP 0 485 803		20-May-92	Zeiss, Carl FA.		
BB26	EP 0 508 257		14-Oct-92	Bayer, Ag		
BB27	EP 0 723 149		24-Jul-96	Hitachi, LTD		

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Substitute for form 1440/PTO				<i><b>Complete if Known</b></i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Application Number	10/661,836
				Filing Date	September 12, 2003
				First Named Inventor	John Moon
				Art Unit	1743
				Examiner Name	Hyun, Paul Sang Hwa
				Attorney Docket Number	IP-0018-US (830-0018US1)
Sheet	14	of	16		

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				Attorney Docket Number	IP-0018-US (830-0018US1)
Sheet	15	of	16		

<b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the items (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	AA1	Burstein Technology, Inc., Angel Strategies Tombstone			no date
	AA2	Vander Lugt, Design Relationships For Holographic Memories; Applied Optics, Vol. 12, No. 7, July 1973			
	AA3	Andrew Marshall; DNA Chips: Array of Possibilities; Nature Biotechnology Vol. 16 Jan. 1998			
	AA4	Thomas Laurell; Enhanced Enzyme Activity in Silicon Integrated Enzyme Reactors Utilizing Porous Silicon as the Coupling Matrix; Sensor & Actuators B 31 (1996) 16-166			
	AA5	Michael J. Kozal; Extensive Polymorphisms Observed in HIV-1 Clade B Protease Gene Using High-Density Oligonucleotide Arrays; Nature Medicine, Vol. 2, No. 7, July 1996			
	AA6	Masato Mitsuhashi; Gene Manipulation on Plastic Plates; Nature, Vol.357, 11JUNE1992			
	AA7	Replication & Duplication -News & Technology; Ben Beune Patent Licensing Director of Philips IP&S; Jan-Feb 2002			
	AA8	V&P Scientific; Compact Disc Arrayer	11/17/03		
	AA9	de Beer et al., Forward-scattering degenerate four-wave mixing for sensitive absorption detection in microseparation systems coupling to micro-column liquid chromatography, Journal of Chromatography A. 811 (1998) 35-45			
	AA10	Fonjallaz et al., Interferometric side diffraction technique for the characterisation of fiber gratings, 1999 OSA Conference, September 23-25			
	AA11	Kashyap R., Fiber Bragg Gratings, Academic Press, Ch. 9, pp.430-433	1999		
	AA12	Kogelnik H, Coupled Wave Theory for Thick Hologram Gratings, The Bell System Technical Journal, 48(9):2909-2947 (1969)			
	AA13	Krug P., Measurement of index modulation along an optical fiber Bragg grating, Optics Letters, 20(17):1767-1769			

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